

AMENDMENTS TO THE CLAIMS

1-25. (Canceled)

26. (Currently Amended) A device according to claim ~~[[25,]]~~ 29, wherein the control unit and is attached to the dressing and the sensor is integral with the control unit are integrated with each other.

27-28. (Canceled)

29. (Currently Amended) A device for treating ~~damaged~~ tissue, comprising:
a dressing for applying to a treatment area;
a pair of electrodes affixed to a treatment surface of the dressing; and
a control unit ~~connected to the electrodes and~~ adapted to pass alternating current to the treatment area via the electrodes~~[[,]]~~ and is further adapted to vary wherein the control unit constantly [[varies]] the amplitude and/or the frequency of the alternating current.

30. (Original) A device according to claim 29, wherein the alternating current is varied between 50 and 500 microamps.

31. (Previously Presented) A device according to claim 29, wherein the frequency of the alternating current is varied between 10 and 900 hertz.

32. (Previously Presented) A device according to claim 29, wherein the time period between each variation of amplitude and/or frequency is 0.1s.

33. (Previously Presented) A device according to claim 29, wherein the alternating current has a ramp waveform.

34. (Currently Amended) A device according to claim ~~[[21,]]~~ 26, wherein the control unit is etched into a substrate.

35. (Currently Amended) A device according to claim [[21,]] 29, wherein the control unit comprises:

a housing; and
electronic circuitry in the housing; ~~and output~~ connected to the pair of electrodes
~~connected to the electronic circuitry.~~

36. (Currently Amended) A device according to claim [[21,]] 35, wherein the ~~control unit includes~~ electronic circuitry comprising memory storing at least one programme for determining the amplitude, frequency and waveform of alternating current supplied to the ~~output~~ electrodes.

37. (Previously Presented) A device according to claim 36, wherein the control unit further comprises an i/o port connected to the electronic circuitry, such that an external device can connect to the control unit via the i/o port and update the memory and controlling operation of the control unit.

38. (Currently Amended) A device according to claim [[37,]] 35, wherein the control unit further comprises a wireless transceiver connected to the electronic circuitry, such that an external device can wirelessly connect to the control unit via the i/o port and update the memory and control operation of the control unit.

39. (Currently Amended) A device according to claim [[38,]] 35, wherein the control unit comprises:

a pair of activation electrodes; and
a removable tab including a metallic strip connecting the activation electrodes,

wherein the electronic circuitry detects when a current can pass between the activation electrodes and only supplies current to the output electrodes when the tab is removed such that no current passes between the activation electrodes.

40-47. (Canceled)